



Hand Tools

| | |
|---|----------------------------|
| aviation snips (M1, M2, M3) | rake |
| band tensioner | rasp |
| brake | rivet gun |
| brooms | rollers |
| bungee cords | rubber bands |
| caulking gun | saws (keyhole and hand) |
| chisels | scissors |
| clamps | scraper |
| combination machine (beader/crimper) | scratch awl |
| easy edger | screwdrivers |
| end nippers | sealer |
| flare staple gun | shears |
| foam gun | shovel |
| glove bag | staple gun |
| hammer | thermometer |
| hog ring pliers / C-ring pliers | thickness gauge |
| knife and sheath | tie-down straps |
| lagging brush | tin snips |
| paint brush | tool pouch |
| paint roller | trowels (pointer and flat) |
| pliers | water hoses |
| | wire brush |

Power Tools

| | |
|---|-----------------------|
| band cutting machine | mitre saw |
| band saw | mixers |
| blow torch | negative air machine |
| circular saw | nibblers |
| drills (cordless and electric) | notchers |
| electric combination machine | pin gun |
| electric roller | pin welder |
| electric shears | pneumatic tools |
| extension cords | powder actuated tools |
| foot operated shears (guillotine) | pump sprayer |
| grinders | safety edge machine |
| heat gun | sewing machine |
| HEPA (High Efficiency Particulate Absolute) vacuum | slitter |
| jig saw | stud gun |
| lock former | stud welder |
| | table saw |

Layout Equipment

| | |
|--------------------|---------------|
| calculator | mitre chart |
| carpenter's square | pencils |
| chalk line | protractor |
| circumference rule | scale ruler |
| clamps | straight edge |
| compass | tape measure |
| dividers | t-square |
| felt pens | trammel point |
| level | |

Spray Equipment

| | |
|-----------------|--------------|
| airless sprayer | spray pumps |
| hopper | tip cleaners |
| sprayer | |

Access Equipment

| | |
|----------------|--------------|
| aerial manlift | scaffolding |
| bosun chair | scissor lift |
| ladders | swing stage |

Personal Protective Equipment and Safety Equipment

acid suits
disposable booties
disposable coveralls (whites)
eye wash station
face shields
fall arrest equipment
fire and chemical resistant coveralls
fire extinguisher
first aid kit

gloves
goggles
hard hat
hearing protection
reflective vest
respirator
safety boots
safety glasses
wristlets



| | |
|---------------------------|---|
| abatement | to become less severe or widespread; in this analysis, refers to asbestos removal, enclosure or encapsulation in order to minimize the health risks |
| bulkhead | any vertical partition separating compartments on a ship |
| cladding/jacketing | covering applied to insulation as a protective or decorative cover |
| deckhead | underside of a ship's deck viewed from below the ceiling |
| encapsulate | applying penetrating sealants or sprays to prevent airborne contaminants |
| enclose | to box in, using such materials as metal or drywall |
| lags | mitred sections of flat insulating material cut to form a specific shape |
| stud and rail | a fastening system for insulation and cladding on tanks |
| vessel | pressurized container; for example, propane tanks, exchangers and cylinder tanks |



| | |
|-----------------|--|
| ASJ | All service jacket |
| CAD | Computer Assisted Drawing |
| HEPA | High Efficiency Particulate Absolute |
| MEK | methyl ethyl ketone |
| MSDS | Material Safety Data Sheet |
| OH&S | Occupational Health and Safety |
| PPE | Personal Protective Equipment |
| PVC | Poly-vinyl chloride |
| RFFRK | Reinforced Foil Flame Retardant Kraft |
| TSP | tri-sodium phosphate |
| WHMIS | Workplace Hazardous Materials Information System |

APPENDIX D**BLOCK AND TASK WEIGHTING****BLOCK A OCCUPATIONAL SKILLS**

| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | National Average |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------|
| % | NV | 15 | NV | 35 | 6 | ND | 15 | 15 | 20 | 14 | NV | NV | NV | 17% |

Task 1 Maintains tools and equipment.

| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| % | NV | 30 | NV | 20 | 5 | ND | 40 | 10 | 20 | 33 | NV | NV | NV | 23% |

Task 2 Organizes work.

| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| % | NV | 30 | NV | 25 | 25 | ND | 20 | 30 | 20 | 35 | NV | NV | NV | 26% |

Task 3 Performs routine trade activities.

| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| % | NV | 40 | NV | 55 | 70 | ND | 40 | 60 | 60 | 32 | NV | NV | NV | 51% |

BLOCK B INDUSTRIAL APPLICATION

| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | National Average |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------|
| % | NV | 37 | NV | 25 | 45 | ND | 35 | 30 | 40 | 30 | NV | NV | NV | 35% |

Task 4 Installs insulation for piping and fittings.

| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| % | NV | 40 | NV | 23 | 25 | ND | 20 | 25 | 25 | 30 | NV | NV | NV | 28% |

Task 5 Installs insulation for tanks, vessels and equipment.

| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| % | NV | 30 | NV | 20 | 25 | ND | 20 | 20 | 25 | 21 | NV | NV | NV | 24% |

Task 6 Installs protective cladding.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 10 | NV | 24 | 25 | ND | 20 | 20 | 25 | 12 | NV | NV | NV | 19% |

Task 7 Installs removable covers.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 6 | NV | 8 | 10 | ND | 8 | 12 | 12 | 12 | NV | NV | NV | 10% |

Task 8 Insulates for refractory and cryogenic applications.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 3 | NV | 9 | 8 | ND | 10 | 13 | 3 | 7 | NV | NV | NV | 8% |

Task 9 Installs underground insulating systems.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 3 | NV | 6 | 2 | ND | 10 | 5 | 5 | 4 | NV | NV | NV | 5% |

Task 10 Insulates for soundproofing for industrial applications.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 3 | NV | 6 | 3 | ND | 10 | 5 | 5 | 7 | NV | NV | NV | 6% |

Task 11 Insulates for marine applications.
(NOT COMMON CORE)

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 5 | NV | 4 | 2 | ND | 2 | 0 | 0 | 7 | NV | NV | NV | NCC |

BLOCK C COMMERCIAL APPLICATION

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | National Average |
| % | NV | 30 | NV | 20 | 30 | ND | 25 | 20 | 20 | 30 | NV | NV | NV | 25% |

Task 12 Insulates plumbing systems and mechanical piping.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 40 | NV | 20 | 25 | ND | 25 | 50 | 20 | 32 | NV | NV | NV | 31% |

Task 13 Insulates mechanical ducting.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 30 | NV | 20 | 25 | ND | 25 | 20 | 20 | 22 | NV | NV | NV | 23% |

Task 14 Insulates mechanical equipment.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 12 | NV | 20 | 20 | ND | 20 | 15 | 20 | 20 | NV | NV | NV | 18% |

Task 15 Installs protective finishes.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 15 | NV | 30 | 25 | ND | 20 | 10 | 20 | 15 | NV | NV | NV | 19% |

Task 16 Insulates for soundproofing for commercial applications.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 3 | NV | 10 | 5 | ND | 10 | 5 | 20 | 11 | NV | NV | NV | 9% |

BLOCK D ASBESTOS ABATEMENT

| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | National Average |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------|
| % | NV | 6 | NV | 10 | 15 | ND | 7 | 15 | 10 | 10 | NV | NV | NV | 10% |

Task 17 Prepares for asbestos abatement.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 45 | NV | 28 | 34 | ND | 40 | 30 | 40 | 42 | NV | NV | NV | 37% |

Task 18 Performs asbestos removal procedures.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 40 | NV | 50 | 33 | ND | 40 | 60 | 40 | 39 | NV | NV | NV | 43% |

Task 19 Performs maintenance repair.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 15 | NV | 22 | 33 | ND | 20 | 10 | 20 | 19 | NV | NV | NV | 20% |

BLOCK E SPRAYING INSULATING MATERIALS

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------|
| | | | | | | | | | | | | | | National Average |
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 6 | NV | 5 | 2 | ND | 8 | 5 | 5 | 6 | NV | NV | NV | 5% |

Task 20 Prepares for spraying.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 30 | NV | 60 | 25 | ND | 40 | 50 | 40 | 50 | NV | NV | NV | 42% |

Task 21 Sprays insulation, sealers and coatings.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 70 | NV | 40 | 75 | ND | 60 | 50 | 60 | 50 | NV | NV | NV | 58% |

BLOCK F FIRE STOPPING AND FIREPROOFING

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------|
| | | | | | | | | | | | | | | National Average |
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 6 | NV | 5 | 2 | ND | 10 | 15 | 5 | 10 | NV | NV | NV | 8% |

Task 22 Installs fire stop systems.

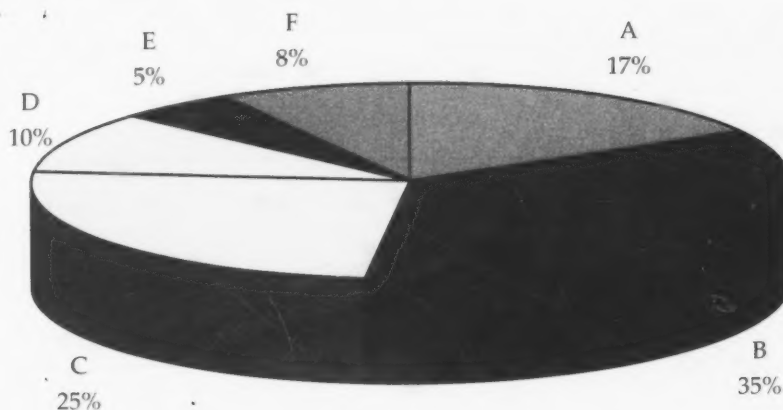
| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 30 | NV | 55 | 50 | ND | 60 | 80 | 80 | 60 | NV | NV | NV | 59% |

Task 23 Installs fireproofing.

| | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| | <u>NL</u> | <u>NS</u> | <u>PE</u> | <u>NB</u> | <u>QC</u> | <u>ON</u> | <u>MB</u> | <u>SK</u> | <u>AB</u> | <u>BC</u> | <u>NT</u> | <u>YT</u> | <u>NU</u> | |
| % | NV | 70 | NV | 45 | 50 | ND | 40 | 20 | 20 | 40 | NV | NV | NV | 41% |

APPENDIX E

PIE CHART*



TITLES OF BLOCKS

| | | | |
|---------|------------------------|---------|--------------------------------|
| BLOCK A | Occupational Skills | BLOCK D | Asbestos Abatement |
| BLOCK B | Industrial Application | BLOCK E | Spraying Insulating Materials |
| BLOCK C | Commercial Application | BLOCK F | Fire Stopping and Fireproofing |

* Average percentage of the total number of questions on an interprovincial examination, assigned to assess each block of the analysis, as derived from the collective input from workers within the occupation from all areas of Canada. Interprovincial examinations typically have from 100 to 150 multiple-choice questions.



APPENDIX F

TASK PROFILE CHART — Insulator (Heat and Frost)

| BLOCKS | | TASKS | SUB-TASKS | | | | |
|--------|------------------------|--|--|---|--|--|--|
| A | OCCUPATIONAL SKILLS | 1. Maintains tools and equipment. | 1.01 Maintains hand tools. | 1.02 Maintains power tools. | 1.03 Maintains spray equipment. | 1.04 Maintains layout and fabrication tools and equipment. | 1.05 Maintains personal protective equipment (PPE) and safety equipment. |
| | | 2. Organizes work. | 2.01 Performs task scheduling. | 2.02 Interprets specifications and drawings. | 2.03 Uses documentation. | 2.04 Communicates with others. | 2.05 Organizes materials. |
| | | 3. Performs routine trade activities. | 3.01 Performs measurements. | 3.02 Uses access equipment. | 3.03 Prepares substrate. | 3.04 Applies sealants. | 3.05 Maintains safe work environment. |
| B | INDUSTRIAL APPLICATION | 4. Installs insulation for piping and fittings. | 4.01 Selects pipe insulation. | 4.02 Fabricates insulation for pipe fittings and hangers. | 4.03 Cuts pipe insulation. | 4.04 Fits pipe insulation. | |
| | | 5. Installs insulation for tanks, vessels and equipment. | 5.01 Cuts insulation for tanks, vessels and equipment. | 5.02 Fits insulation for tanks, vessels and equipment. | 5.03 Fastens insulation on tanks, vessels and equipment. | | |
| | | 6. Installs protective cladding. | 6.01 Selects cladding. | 6.02 Performs cladding layout. | 6.03 Fabricates cladding. | 6.04 Assembles cladding components. | |
| | | 7. Installs removable covers. | 7.01 Lays out removable covers. | 7.02 Fabricates removable covers. | 7.03 Fits removable covers. | | |
| | | 8. Insulates for refractory and cryogenic applications. | 8.01 Applies insulation to refractory systems. | 8.02 Applies insulation to cryogenic systems. | | | |
| | | 9. Installs underground insulating systems. | 9.01 Applies pipe insulation to underground systems. | 9.02 Applies pour-in-place insulation to underground systems. | | | |

| BLOCKS | | TASKS | SUB-TASKS | | | | |
|--------|------------------------|---|--|---|---|--|-----------------------------------|
| C | COMMERCIAL APPLICATION | 10. Insulates for soundproofing for industrial applications. | 10.01 Insulates industrial piping for soundproofing. | 10.02 Insulates turbines and equipment for soundproofing. | | | |
| | | 11. Insulates for marine applications. (NOT COMMON CORE) | 11.01 Insulates bulkheads, deckheads and hulls. (NOT COMMON CORE) | 11.02 Installs finish material on marine applications. (NOT COMMON CORE) | | | |
| | | 12. Insulates plumbing systems and mechanical piping. | 12.01 Selects insulation for plumbing systems and mechanical piping. | 12.02 Cuts insulation for plumbing systems and mechanical piping. | 12.03 Fits insulation for plumbing systems and mechanical piping. | 12.04 Installs vapour barrier on plumbing systems and mechanical piping. | |
| | | 13. Insulates mechanical ducting. | 13.01 Selects insulation for mechanical ducting. | 13.02 Cuts insulation for mechanical ducting. | 13.03 Fits insulation for mechanical ducting. | 13.04 Installs vapour barrier for mechanical ducting. | |
| | | 14. Insulates mechanical equipment. | 14.01 Selects insulation for mechanical equipment. | 14.02 Cuts insulation for mechanical equipment. | 14.03 Fits insulation for mechanical equipment. | 14.04 Installs vapour barrier for mechanical equipment. | |
| | | 15. Installs protective finishes. | 15.01 Selects protective finishes. | 15.02 Cuts protective finishes. | 15.03 Fits protective finishes. | | |
| D | ASBESTOS ABATEMENT | 16. Insulates for soundproofing for commercial applications. | 16.01 Selects soundproofing materials. | 16.02 Insulates piping for soundproofing. | 16.03 Insulates plenums for soundproofing. | 16.04 Installs acoustic panels to ceilings and walls. | |
| | | 17. Prepares for asbestos abatement. | 17.01 Retrieves sample of asbestos for testing. | 17.02 Determines scope of work. | 17.03 Determines required PPE for asbestos abatement. | 17.04 Prepares site for removal or containment of asbestos. | 17.05 Builds temporary enclosure. |
| | | | 17.06 Determines disposal methods and requirements. | | | | |
| | | 18. Performs asbestos removal procedures. | 18.01 Removes asbestos. | 18.02 Disposes of asbestos materials. | | | |

| BLOCKS | TASKS | SUB-TASKS | |
|---|---|--|--|
| E SPRAYING INSULATING MATERIALS | 19. Performs maintenance repair. | 19.01 Encapsulates asbestos. | 19.02 Encloses asbestos. |
| | 20. Prepares for spraying. | 20.01 Protects surrounding work area for spraying. | 20.02 Prepares material, equipment and substrate for spraying. |
| | 21. Sprays insulations, sealers and coatings. | 21.01 Installs reinforcing material for spraying. | 21.02 Applies spray. |
| F FIRE STOPPING AND FIREPROOFING | 22. Installs fire stop systems. | 22.01 Applies fire stop materials. | 22.02 Covers fire stop materials. |
| | 23. Installs fireproofing. | 23.01 Applies fireproofing to structural components. | 23.02 Applies fireproofing to electrical components. |



